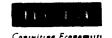
	- CORNELL UNIVERSITY					
1947-1989	Assistant Professor; Associate Professor; Robert Julius Thorne Professor of					
()47-1707	Economics: Robert Julius Thorne Professor of Political Economy, Emeritus.					
	1989-: Chairman. Department of Economics; Dean, College of Arts and					
	Sciences; on leave 1974-80.					
	Sciences, on the second					
	NEW YORK UNIVERSITY SCHOOL OF LAW					
Spring 1989	Visiting Meyer Professor of Law					
	UNITED STATES GOVERNMENT					
1978-1980	Advisor on Inflation to President Carter					
1978-1980	Chairman, Council on Wage and Price Stability					
1977-1978	Chairman, Civil Aeronautics Board					
1955-1957	Senior Staff, Council of Economic Advisors to the President					
1943	U.S. Army, Private					
1943	War Production Board					
1942	1942 Associate Economist, International Economics Unit, Bureau of Foreign Domestic Commerce, Department of Commerce					
1941-1942	Associate Economist, Antitrust Division, U.S. Department of Justice					
1941-1944	Associate Economist, Antitrust Division, U.S. Department of Justice					
	NEW YORK STATE PUBLIC SERVICE COMMISSION					
1974-1977	Chairman					
	BROOKINGS INSTITUTION					
1940,	Staff Economist					
1950-1951	Stati Coulomst					
	RIPON COLLEGE					
1945-1947	Assistant Professor, Chairman, Department of Economics					
	TWENTIETH CENTURY FUND					
1944-1945	Research Economist					
1744-1743	Research Economist					
	COMMISSION ON PALESTINE SURVEYS					
1943-1944	Economist					
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
	UNIVERSITY OF MISSOURI					
1937-1938	Teaching Assistant					

CONSULTANCIES AND PROFESSIONAL ACTIVITIES:

1993	Court-appointed expert in State of New York v. Kraft General Foods, Inc.,
1992	et al., U.S. District Court, S.D.N.Y. New Zealand Telecom on the progress of competition in New Zealand
	telecommunications
1 992	Rochester Telephone Company on corporate restructuring and deregulation
1992	Russian Government on economic reform
1991	British Mercury on terms of competition with British Telecom
1989	City of Denver on charging and financing of Stapleton Airport
1988-1990	Attorneys General, New York and Pennsylvania, on airline mergers
1985	Attorney General, State of Illinois, on Illinois Bell rates



1981-1984	City of Long Beach, California, the Coca-Cola Company and American						
	Airlines on antitrust litigation						
1981-	Economic commentary, Nightly Business Report (PBS)						
1980-1982	Advisor to Governor Carey on Telecommunications Policy						
1968	Ford Foundation						
1966	National Commission on Food Marketing						
1965.1974	Federal Trade Commission						
1963-1964	Antitrust Division, Department of Justice						
1960-1961	U.S. Department of Agriculture						
1957-1961	Boni Watkins, Jason & Co.						
See also the list	of testimony below.						

MEMBERSHIPS:

1992-	Member, New York State Telecommunications Exchange						
1992-93	Member, Ohio Blue Ribbon Panel on Telecommunications Regulation						
1991-	Board of Editors, Review of Industrial Organization						
1990-92	Chairman, International Institute for Applied Systems Analysis Advisory						
.,,,,,,,,	Committee on Price Reform and Competition in the USSR						
1986	Governor Cuomo's Advisory Panel on public power for Long Island						
1983-89	Governor Cuomo's Fact-finding Panel on Long Island Lighting Company's						
1705-07	Nuclear Power Plant at Shoreham, L.I.						
1983-90	New York State Council on Fiscal and Economic Priorities						
1982-	The American Heritage Dictionary Usage Panel						
1982-1985	Governing Board, Common Cause						
1980-1986	Director, New York Airlines						
1978-1979	National Commission for the Review of Antitrust Laws and Procedures						
1975-1977	Project Committee, Electric Utility Rate Design Study, Electric Power						
	Research Institute						
1974-1975	National Academy of Science Review Commission on Sulfer Oxide Emissions						
1974-1977	Public Advisory Board, Electric Power Research Institute						
1974-1977	Environmental Advisory Committee, Federal Energy Administration						
1974-1977	Executive Committee, National Association of Regulatory Utility						
	Commissioners, and Chairman, Committee on Electric Energy						
1968-1974	Economic Advisory Board, American Telephone & Telegraph Corporation						
1965-1967	Economic Advisory Committee, U.S. Chamber of Commerce						
1967-1969	Chairman, Tompkins County Economic Opportunity Corporation						
1964-1969	Board of Trustees, Cornell University						
1961-1964	· · · · · · · · · · · · · · · · · · ·						
1953-1955	Board of Editors, American Economic Review						
1733-1733	Attorney General's National Committee to Study the Antitrust Laws						

HONORS AND AWARDS:

Mar 1989	Burton Gordon Feldman Award for Distinguished Public Service, Gordon
	Public Policy Center, Brandeis University
Feb 1989	Distinguished Service Award, Public Utility Research Center, University of
	Florida Florida
Nov 1988	International Film and TV Festival of New York, Bronze Medal presented to
	The Nightly Business Report/WPBT2 for Editorial/Opinion Series written by
	Alfred E. Kahn
Apr 1986	Harry E. Salzberg 1986 Honorary Medallion for outstanding achievement in the
	field of transportation



Oct 1984	Distinguished Transporation Research Award of the Transportation Research						
	Forum						
1981-1982	Vice President, American Economic Association						
1978	Richard T. Ely lecturer, American Economic Association, 1978						
1978	Rejection Scroll, International Association of Professional Bureaucrats						
May 1985	State University of New York (Albany), DHL (Hon.)						
May 1983	Colgate University, LL.D. (Hon.)						
June 1982	Northwestern University, LL.D. (Hon.)						
May 1980	Ripon College, LL.D. (Hon.)						
May 1979	University of Massachusetts, LL.D. (Hon.)						
May 1978	Colby College, LL.D. (Hon.)						
1977-	Fellow of the American Academy of Arts and Sciences						
1976	Distinguished Alumni Award, New York University						
1976	American Economic Association, Section on Public Utilities and Transportation,						
	citation for distinguished contributions						
1954-1955	Fulbright Fellowship, Italy						
1935-	Phi Beta Kappa						
1939-1940	Yale-Brookings Fellow						

BOOKS:

The Economics of Regulation, 2 volumes, John Wiley, 1970 and 1971. Reprinted by The MIT Press, 1988, with a new "Introduction: A Postscript, Seventeen Years After," pp. xv-xxxvii.

Integration and Competition in the Petroleum Industry, (with Melvin G. DeChazeau), Petroleum Monograph Series, Volume 3 (Yale University Press, 1959). Reprinted in 1971.

Fair Competition: The Law and Economics of Antitrust Policy (with Joel B. Dirlam) (Cornell University Press, 1954). Reprinted by Greenwood Press, 1970.

Great Britain in the World Economy (Columbia University Press, 1946). Reprinted in 1968.

MAJOR ARTICLES:

"The Pricing of Inputs Sold to Competitors: A Comment," in Yale Journal on Regulation, Vol. 11, No. 1, Winter 1994, pp. 225-240.

"Change, Challenge and Competition The Report of the National Commission to Ensure a Strong Competitive Airline Industry, August 1993," Regulation, No. 3, 1993.

"The Competitive Consequences of Hub Dominance: A Case Study," in Review of Industrial Organization, Vol. 8, 1993, pp. 381-405.

"Pricing of Telecommunications Services: A Comment," in Review of Industrial Organization, Vol. 8, 1993, pp. 39-41.

"The Purposes and Limitations of Economic Regulation; The Achievements and Problems of Deregulation" and "Reflections and Conclusions on British and U.S. Experience: The Future of Regulation," in *Incentive Regulation: Reviewing RPI-X & Promoting Competition. Proceedings* 2, Based on papers presented at two CRI seminars in London on 4 June and 15 July 1992, CRI (Centre for the Study of Regulated Industries), October 1992, pp. 1-17 and 93-104.

"Market Power Issues in Deregulated Industries," in Antitrust Law Journal, Vol. 60, Issue 3, American Bar Association, 1992, pp. 857-866.

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"Least cost planning generally and DSM in particular," in Resources and Energy 14 (1992), Elsevier Science Publishers, North-Holland, pp. 177-185.

"Price Deregulation, Corporatization and Competition" (with M.J. Peck), in What is to be Done? Proposals for the Soviet Transition to the Market, M.J. Peck and T.J. Richardson, eds., New Haven: Yale University Press, 1991.

"Thinking About Predation--A Personal Diary," in Review of Industrial Organization, Vol. 6, The Netherlands: Kluwer Academic Publishers, 1991, pp. 137-146.

"An Economically Rational Approach to Least-Cost Planning For Electric Power," The Electricity Journal, Vol. 4, Number 5, June 1991, pp. 11-20.

"The Changing Focus of Electric Utility Regulation," Research in Law and Economics, Richard O. Zerbe, Jr., Victor P. Goldberg, eds., Vol. 13, JAI Press, Inc., Spring 1991, pp. 221-231.

"The Soviet Economic Crisis: Steps to Avert Collapse" (co-author), Executive Report 19, International Institute for Applied Systems Analysis, Laxenburg, Austria, February 1991.

"Telecommunications, Competitiveness and Economic Development--What Makes Us Competitive?", Public Utilities Fortnightly, Vol. 126, No. 6, September 13, 1990, pp. 12-19.

"Deregulation: Looking Backward and Looking Forward," Yale Journal on Regulation, Vol. 7, Spring 1990, pp. 325-354.

"Do We Need to Curb the Investments Foreigners are Making in the United States?" in The Impact of Foreign Investment in the United States, Touche Ross & Co., June 1989.

"Innovative Pricing of Electricity," in New Dimensions in Pricing Electricity: Proceedings, Palo Alto, CA: Electric Power Research Institute, April 1989.

"Competition: Past, Present and Future, Perception vs. Reality," in Proceedings: 1988 Utility Strategic Issues Forum Planning in a Competitive Environment, Palo Alto, CA: Electric Power Research Institute, March 1988.

"Thinking About The Record of Deregulation," in The Donald S. MacNaughton Symposium Proceedings 1987, Economic Deregulation: Promise and Performance, Syracuse, NY: Syracuse University, 1988, pp. 21-35.

"In Defense of Deregulation," in Cleared For Takeoff: Airline Labor Relations Since Deregulation, Jean T. McKelvey, Editor, Ithaca, NY: Cornell University ILR Press, 1988, pp. 343-347."

"I Would Do It Again," Regulation, Number 2, Fall 1988, pp. 22-28.

"Airline Deregulation," The Senior Economist, Joint Council on Economic Education, Spring 1988.

"Airline Deregulation - A Mixed Bag, But a Clear Success Nevertheless," Transporation Law Journal, Volume 16, No. 2, Spring 1988, pp. 229-251.

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"The Future of Local Telephone Service: Technology and Public Policy," Fishman Davidson Center for the Study of the Service Sector, The Wharton School of the University of Pennsylvania, Discussion Paper #22, June 1987. Reprinted in *Toward The Year 2000*, ITT Key Issues Lecture Series, 1986, (New York: ITT Corp. 1987), pp. 86-99.

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"The Tyranny of Small Decisions and the Perils of Big Ones," in Allocation. Ethics. and Innovation in Research and Public Policy, National Symposium on Science and Technology, Cornell University, Washington, D.C., May, 20, 1986.

"The Theory and Application of Regulation," Antitrust Law Journal, Spring Meeting Issue, 1986, Volume 55, Issue 1, pp. 177-184, from ABA Antitrust Section Annual Meeting.

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"Telecommunications Regulation: A Case Study of the Impact of a Technology on Social Institutions," for presentation at Cornell University Electrical Engineering Centennial Symposium, Ithaca, New York, June 12, 1985.

"Public Policies for Our Telecommunications Future," in Funding the Future of Telecommunications, a conference sponsored by Rensselaer Polytechnic Institute, supported by the NYNEX Telephone Companies, Saratoga Springs, New York, June 3-5, 1985.

"Industrial Policy and Deregulation," Federal Bar News & Journal, Washington, D.C., January 1985.



First Distinguished Lecture on Economics in Government, "The Macroeconomic Consequences of Sensible Microeconomic Policies," Dallas, December 28, 1984. American Economic Association meetings.

"The Regulatory Agenda," and "Concluding Comments: The Future of Access," in Alan Baughcum and Gerald R. Faulhaber, Telecommunications Access & Public Policy, Ablex Publishing Corporation, Norwood, New Jersey, 1984, pp. 205-210 and pp. 245-253.

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"The Road to More Intelligent Telephone Pricing," Yale Journal on Regulation, Volume 1, Number 2, 1984, pp. 139-157.

"Telephone Deregulation: Two Views: A Needed Dose of Competition," Challenge, March/April 1984, pp. 24-29.

"Economic Policies For The 80s," Oppenstein Brothers Foundation Lecture, Rockhurst College and the University of Missouri, Kansas City, April 19, 1983.

"The Relevance of Industrial Organization," Industrial Organization. Antitrust. and Public Policy, John V. Craven, ed., Kluwer-Nihjoff, 1983.

"Some Thoughts on Telephone Access Pricing," National Economic Research Associates, April 1983.

"Deregulation: Its Meaning and Implications for Antitrust Enforcement," New York State Bar Association, 1983 Antitrust Law Symposium, pp. 2-14.

"The Passing of the Public Utility Concept: A Reprise," in Telecommunications Today and Tomorrow, Eli Noam (ed.) Harcourt Brace Jovanovich, 1983.

"Deregulation and Vested Interests: The Case of Airlines," The Political Economy of Deregulation, Roger G. Noll and Bruce M. Owen, eds., American Enterprise Institute Studies in Government Regulation, 1983.

"An Alternative to Reaganomics," Increasing Understanding of Public Problems and Policies, 1982, Farm Foundation, January 1983.

"Utility Diversification," The Energy Journal, Volume 4, No. 1, January 1983, pp. 149-160.

"The Airline Industry: Is It Time to Reregulate?" Second Annual William A. Patterson Transportation Lecture, The Transportation Center, Northwestern University. Published jointly with National Economic Research Associates, 1982. Reprinted in The World Economy, December 1982, London: Basil Blackwell, pp. 341-360.

"On Changing the Consumer Price Index, A Comment," Journal of Policy Analysis and Management, Vol. 1 (Summer 1982), pp. 512-15.

"The Political Feasibility of Regulatory Reform: How Did We Do It?" Reforming Social Regulation: Alternative Public Policy Strategies, Leroy Graymer and Frederick Thompson (eds.), Sage Publications, 1982.

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"The New Merger Wave," N/E/R/A Topics, National Economic Research Associates, December 1981.

"Liberals Must Face Facts," Challenge, Nov/Dec. 1981, pp. 25-32.

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"Utility Regulation Revisited," National Economic Research Associates: New York, 1981, republished in Current Issues in Public Utility Economics: Essays in Honor of James C. Bonbright, Albert L. Danielsen and David R. Kamerschen (eds.), Lexington, MA., D.C. Heath and Company, 1983.

"Must We Live With Inflation Through the 1980s?" Major Issues of the 1980s Lecture Series. Sponsored jointly by the Lowell Institute of Boston and Harvard University Extension, April 1981.

"Ethical Values in a Market System," Across the Board, The Conference Board, April 1981, pp. 57-63.

"Can Liberalism Survive Inflation?" The Economist, March 7, 1981, pp. 21-25.

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"Regulation and the Imagination," Proceedings of a Regulatory Council Conference, United States Regulatory Council, July 22, 1980, pp. 1-9.

"Health Care and Inflation: Social Compassion and Efficient Choice," National Journal, August 2, 1980, pp. 1294-97.

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"Load Control, Resource Conservation and King Charles' Head," Iowa State University Regulating Conference, Proceedings, May 19, 1977, pp. 68-74.

"Recent Developments in Cost Analysis and Rate Design," Proceedings of the Third Annual Symposium on Problems of Regulated Industries, Kansas City, Missouri, February 14, 1977, pp. 15-28.

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"New Rate Structures in Communications" (with Charles A. Zielinski), Public Utilities Fortnightly, March 25, 1976, pp. 19-24 and April 8, 1976, pp. 20-23.

"Efficient Rate Design: The Transition from Theory to Practice," Proceedings of the Symposium on Rate Design Problems of Regulated Industries, February 23-26, 1975, Kansas City, Missouri, pp. 34-51.

"Between Theory and Practice: Reflections of a Neophyte Public Utility Regulator," Public Utilities Fortnightly, January 2, 1975, pp. 3-7.

"Economic Theory as a Guideline for Government Intervention and Control: Comment," Journal of Economic Issues, Vol. VIII, No. 2, June 1974.

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"National Communications Policy: Discussion," The American Economic Review, Papers and Proceedings, Volume 60, May 1970, pp. 219-20.

"Dual Pricing in Southern Louisiana: A Reply," Land Economics, XLVI (August 1970): 338-42.

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"Cartels and Trade Associations," Encyclopedia of the Social Sciences, 1968.

"The Merits of Reserving the Cost-Savings From Domestic Communications Satellites for Support of Educational Television" (with Joel B. Dirlam), Yale Law Journal, Volume 77, No. 3, January 1968, pp. 494-520.

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"My Antitrust Philosophy: Evidence of Schizophrenia or Shattering Transformation?" Antitrust Bulletin, Volume 1, November 1955, p. 355.

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"The Integration and Dissolution of the A & P Company" (with Joel B. Dirlam), Indiana Law Journal, Volume 29, Fall 1953, pp. 1-27.

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"Leadership and Conflict in the Pricing of Gasoline" (with Joel B. Dirlam), Yale Law Journal, Volume 61, June-July 1952, pp. 818-855.

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U.S. CONGRESSIONAL TESTIMONY:

Aviation Subcommittee of the House Committee on Public Works and Transportation on international aviation policy, May 9, 1991.

Subcommittee on Aviation of the Senate Committee on Commerce, Science and Transportation on airline concentration at hub airports, September 22, 1988.

Subcommittee on Aviation of the Senate Committee on Commerce, Science and Transportation on airline safety and re-regulation, November 4, 1987.

Subcommittee on Telecommunications and Finance, House Committee on Energy and Commerce, on competition and deregulation of the telecommunications industry, July 15, 1987.

Subcommittee on Antitrust and Monopoly of the Senate Committee on the Judiciary, on competitive issues in the airline industry, March 25, 1987.

Subcommittee on Monopolies and Commercial Law, Committee on the Judiciary, U.S. House of Representatives, on the Administration's proposed amendments to Section 7 of the Clayton Act, February 26, 1986.

Subcommittee on Aviation of the Senate Committee on Commerce, Science and Transportation on Computerized Reservation Systems, March 19, 1985.

Joint Economic Committee, United States Senate, Hearing on the Economic Issues of a Changing Telecommunications Industry, October 3, 1983.

House Subcommittee on Aviation on "Competitive Problems Raised by Computerized Reservation Systems," June 22, 1983.

House Committee on the Judiciary, on H.R. 1878, "The Shipping Act of 1983," May 19, 1983.

House Committee on Public Works and Transportation on "Coal Slurry Pipelines," April 13, 1983.

House Committee on the Judiciary, on H.J. Res. 350, A Plan to Balance the Federal Budget, August 4, 1982.

Senate Committee on the Judiciary, on S. 1215, the Malt Beverage Competition Act, June 21, 1982.

Subcommittee on Investigations and Oversight, House Committee on Public Works and Transportation, "Development, Operation and Implementation of the United States International Aviation Policy," December 9, 1981.

Joint Economic Committee, U.S. Congress on "Trucking Regulation," November 17, 1981.

Subcommittee on Monopolies and Commercial Law, House Committee on the Judiciary, "Mergers," August 26, 1981.

Senate Committee on Commerce, Science and Transportation, on S. 898, "The Telecommunications Act of 1981," June 11, 1981.

Subcommittee on Telecommunications, Consumer Protection, and Finance, House Committee on Energy and Commerce, "Telecommunications Regulation," May 20, 1981.

Subcommittee on Health, Senate Committee on Finance, on "The Health Incentives Reform Act," March 19, 1980.

House Budget Committee Inflation Task Force, on the "Treatment of Housing Costs in the Consumer Price Index," January 24, 1980.

Senate Committee on Banking, Housing, and Urban Affairs, on "The Chrysler Loan Guarantee Act," November 15, 1979.



Subcommittee on Surface Transportation, House Committee on Public Works and Transportation, on "Trucking Deregulation," October 4, 1979.

Senate Committee on Commerce, Science, and Transportation, on "Trucking Deregulation," June 26, 1979.

Subcommittee on the Legislative Process, House Rules Committee, on "Sunset Legislation," May 23, 1979.

Testimony on food prices and inflation, before:

- a) House Subcommittee on Domestic Marketing, Consumer Relations and Nutrition; and Subcommittee on Department Investigations, Oversight and Research, Committee on Agriculture, April 4, 1979.
- b) Subcommittee on Antitrust and Monopoly, Senate Committee on the Judiciary, April 6, 1979.

Testimony on hospital cost containment legislation, before:

- a) Subcommittee on Health and the Environment, House Interstate and Foreign Commerce Committee; and Subcommittee on Health, House Ways and Means Committee, March 12, 1979.
 - b) Health Subcommittee, Senate Finance Committee, March 13, 1979.

Subcommittee on Environmental Pollution, Senate Committee on Environment and Public Works, on "Environmental Regulation and Inflation," February 27, 1979.

Testimony on authorization and appropriations for the Council on Wage and Price Stability, before:

- a) Subcommittee on Economic Stabilization, House Committee on Banking, Finance and Urban Affairs, February 6, 1979.
- b) Senate Subcommittee on Commerce, Consumer and Monetary Affairs, February 7, 1979.
 - c) Senate Committee on Banking, Housing and Urban Affairs, February 9, 1979.
- d) Subcommittee on Treasury, Postal Service, and General Government, House Committee on Appropriations, May 24, 1979.
 - e) House Appropriations Committee, February 6, 1980.
 - f) Senate Committee on Banking, Housing, and Urban Affairs, March 17, 1980.
- g) Subcommittee on Treasury, Postal Service, and General Government, House Committee on Appropriations, March 31, 1980.
 - h) Senate Committee on Banking, Housing and Urban Affairs, April 21, 1980.
- i) Subcommittee on Treasury, Postal Service, and General Government, Senate Committee on Appropriations, April 23, 1980.
- j) Subcommittee on Economic Stabilization, House Banking Committee, May 6, 1980.

House Committee on Ways and Means, on "Real Wage Insurance," January 30, 1979.

Testimony on the President's anti-inflation program, before:

- a) Subcommittee on Economic Stabilization, House Committee on Banking, Currency, and Housing. November 22, 1978.
- b) Subcommittee on Economic Growth and Stabilization, Joint Economic Committee, December 6, 1978.
 - c) House Committee on the Budget, January 30, 1979.

- d) Subcommittee on Treasury, Postal Services, and General Government, House Committee on Appropriations, February 14, 1979.
 - e) Senate Budget Committee, March 7, 1979.
- f) Subcommittee on Commerce, Consumer and Monetary Affairs, House Committee on Government Operations, June 28, 1979.
- g) Economic Stabilization Subcommittee, House Committee on Banking, Finance and Urban Affairs, October 10, 1979.
- h) Economic Stabilization Subcommittee, Senate Committee on Banking, Housing and Urban Affairs, October 11, 1979.

Subcommittee on Aviation, Senate Commerce, Science, and Transportation Committee, on S. 3363, "The International Air Transportation Competition Act of 1978," August 23, 1978.

National Commission for the Review of Antitrust Laws and Procedures, on "Economic Regulation and Antitrust Exemptions and Immunities," July 26, 1978.

Senate Commerce Committee, on S. 3064, "Airline Noise Legislation," June 14, 1978.

Testimony on CAB appropriations, before:

- a) House Subcommittee on Appropriations, February 28, 1978.
- b) Senate Subcommittee on Appropriations, March 2, 1978.

Testimony on United States international aviation negotiations, before:

- a) Subcommittee on Aviation, House Committee on Public Works and Transportation, September 29, 1977
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asking for the RDP in the basement will likely be ignored, and we could well be faced with an FCC order to wire to each unit

- The FCC has not enforced existing RDP policies against the CAPs, and that situation is unlikely to change.
- We will have a hard time competing if we are in the basement and competitors are at an upper floor, because subscribers or landlords must pay to bring our signals, but not competitors' signals, to upper floors (assuming the FCC allows us to place the RDP in the basement but allows others to go to upper floors)
- We cannot always reach upper floors of tall buildings with acceptable broadband signals from the basement (especially affects MMDS)
- If we need to put an ONU on upper floors and the unit is considered CPE (as it would on customer's side of RDP), landlords are likely to refuse to invest in ONUs and maintain them. This effectively excludes us from the building

Please call either of us if you have any questions.

Larry Katz (X4862) Betsy Anderson (X6348)

cc: Ed Young
Harlan Sherwat
Jack White

1990 - 1994 Total Interstate Ratios For Regional Bell Operating Companies

		D&A	Oper Exps	Oper Exp Before D&A	TPIS	ANI
1990	Note 1	25.74%	23.72%	22.89%	25.35%	25.38%
1991	Note 1	25.60%	23.46%	22.64%	25.27%	25.29%
1992	Note 1	25.64%	23.39%	22.50%	25.20%	25.11%
1993		25.55%	23.13%	22.19%	25.34%	25.04%
1994		25.82%	23.17%	22.14%	25.54%	24.86%
Average		25.67%	23.37%	22.46%	25.34%	25.13%
Std Dev		0.0011	0.0024	0.0031	0.0013	0.0021
Variance		0.000120	0.000571	0.000986	0.000163	0.000423

Source: Fourth quarter ARMIS 43-01 Reports.

Note 1: Adjusted for SPF and DEM Transitions.